

Course Intent

- Explain Authority
- Provide Key Definitions
- ❖Identify the Documents Used
- Define the Proper Application of Documents

Authority: 1972 PA 230

❖ Section 19 (1) The commission shall promulgate rules establishing a procedure by which a premanufactured unit intended for use in this state **may** be issued a certificate of acceptability by the commission at its place of manufacture.

The Rules: Part 11

- ❖Rules 1103 1106 defines
 - Approved
 - Building System
 - Enforcing Agency
 - Independence of Judgment
 - Inspection Agency
 - Label

The Code: Michigan

- ❖Building (MBC)
- ❖ Electrical (MEC)
- ❖Mechanical (MMC)
- ❖Plumbing (MPC)
- ❖ Residential (MRC)

Michigan Building Code

Applies to all buildings except 1 and 2 family dwellings and townhouses not more than 3 stories.

Chapters 1 & 2

All of the administrative provisions and definitions are applicable.

Chapters 3 & 4 Use and Occupancy Provisions

- The use and occupancy provisions are applied.
- ❖R-3 is used when the building is:
 - More than 3 stories. (3 stories and less are in the Residential Code)
 - Not more than 2 dwelling units
- ❖ R-2 is used when more than 2 dwelling units with more than 3 stories.

Chapters 5 & 6 Height and Area & Construction Type

- The provision must be applied as written.
- If area and height increases are needed they must be identified in the approval
- ❖A 4 story R-3 will require fire sprinklers or minimum type IV construction.
- ❖ A 4 story R-2 will require fire sprinklers with type VA construction or type IV.

Chapters 7, 8 and 9 Fire Resistance, Interior Finishes and Fire Protection

- Provisions applied as written.
- Separation distances required are noted as part of approval.
- When fire sprinklers are required they are usually installed on site and noted in the approval.

Chapters 10 and 11 Egress and Accessibility

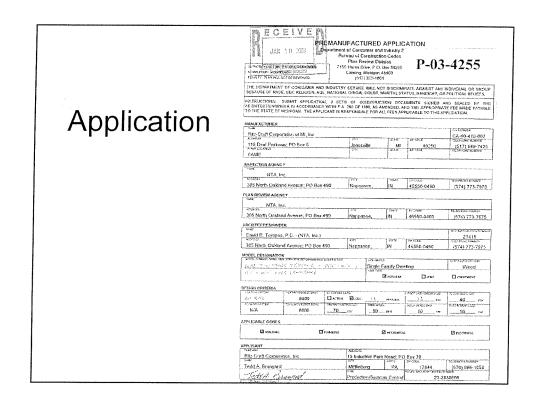
- Egress and Accessibility are applied as written.
- ❖Town houses (4 stories or more) under the MBC are R-2 and will require type "B" units and 2% type "A" units with 20 or more units.
- ❖When the MRC is used the accessibility provision for R-3 requiring type "B" units.

The Balance of the MBC is Applied With:

- The Michigan Electrical Code
- ❖ The Michigan Mechanical Code
- The Michigan Plumbing Code

The MRC Contains Requirements for:

- Building
 - Section R326 refers you to MBC for accessibility.
- Electrical
- ❖ Mechanical
- Plumbing



Application Checklist

ITEM	LOCATION				
	PLANS Short	SPECIFICATIONS	SYS, MANHA		
	No.	Page No.	Page No.		
BUILDING					
MATING DETAILS			GN-1		
FOUNDATION CONNECTION DETAILS			GN-1		
EXTERIOR ELEVATIONS	5		1		
MAJOR CROSS SECTIONS		***************************************	GN-1		
WALL SECTION		***************************************	G!4-2		
PLASHING DETAILS	7.2		SN-1.84		
ATTIS ACCESS	221222	***************************************	GN-2 SN-1#		
ATTIC VENTILATION			SN-1#7		
EXTERIOR MAYERIALS & FINISHES			GN-1		
INTERIOR MATERIALS & FRUSHES			SN-1, SN-1#1		
FIRE SEPARATION ASSEMBLY LOCATIONS	N/A				
DOOR & WINDOW SCHEDULE	1 2		GN-2		
FOUNDATION PLANS	4, 4, 5				
DRAWL SPACE VENTING					
ENERGY CONSERVATION CALCULATIONS	6		***************************************		
ACCESSIBILITY DETAILS	NVA				
OCATION OF SMOKE DETECTORS	3, 3 1, 4, 4 1		***************************************		
TRE RESISTANCE RATING / DETAILS		***************************************			
RESTOPPING / DRAFTS TOPPING DETAILS					
STAIR DETAILS			GN-384		
UXICITY & FLAME SPREAD RATING FOR INTERIOR IMISHES			SN-1,#12		
ESIGN SOIL BEARING CAPACITY	6, 4,1				
OUNDATION LOADS	4, 4.1				
OUNDATION SIZES & DETAILS	4, 4,1				
TRUCTURAL FRAMING DETAILS			GN-1. GN-3		
EADER / LEVYEL SCHEDULES			6N-1; WC-1-3		
RUBS DESIGN			RC-3 1		
ASTENER SCHEDULE			FS-1-3		
AGEL & DATA PLATE LOCATION	2,2,1,2,2,2,3				
TE INSTALLED ITEMS	1.8				
ELECTRICAL	1				
NEL SCHEDULE(S)	3.2				
RVICE EQUIPMENT PLAN OR RISER DIAGRAM	3.2		SN-7		

Application Checklist

ITEM	LOCATION				
	PLANS Sheet		SYS, MANUAL		
	fvo.	Page No.	Page No.		
GROUNDING METHOD AND DETAILS	3.2		54:-5,#3;8N-7,#		
LOAD CALCULATIONS	<u> </u>				
SIZE OF FEEDERS AND BRANCH CIRCLET	3.2				
LOCATION OF MAIN DISCONNECT	3				
METHOD OF INTERCONNECTION BETWEEN UNITS		PISTALLATION MAYDAL			
LOCATION OF OUTLETS AND JUNCTION BOXES	3,3 1,4,4 1				
FIXTURE MOUNTING METHOD			SN-8,#23		
SPECIAL EQUIPMENT OR APPLIANCE LOCATIONS	N/A				
OPTIONAL EQUIPMENT PLANS OR DETAILS	19/A	***************************************			
SITE INSTALL ITEMS	3,31,33,441		SN-F		
MECHANICAL					
IS THE HEATING BYSTEM INSTALLED IN THE FACTORY 18 THE HEATING BYSTEM INSTALLED IN THE FACTORY 18 THE HEATING BYSTEM INSTALLED IN THE FACTORY					
HEATING AND COOING EQUIPMENT LOCATIONS			***************************************		
DUCT AND REGISTER LAYOUTS			***************************************		
LUCATIONS OF EXHAUST GRILLS IN BATHROOMS	3.31				
EXHAUST OUCT MATERIAL		***************************************	Src-C #15816		
COMBUSTION AIR LOCATIONS			8N-5 #14819		
VENTILATING AIR LOCATIONS	1	***************************************	***************************************		
VENTING SYSTEM LOCATIONS					
TRE DAMPER LOCATIONS	N/A	i	***************************************		
HR BALANCING DEVICE LOCATIONS		····	SN @ # 10		
BROKE DETECTORS IN DECTWORK	N/A				
PRINKLER SYSTEM	N/A				
PRINTLER FLANS	NJA				
PRINKLER CALCULATIONS	14/6				
MANUFACTURED FIREFLACE SPECIFICATION	-		SN-3,#20		
ITE INSTALLED ITEMS	3, 3 1, 3 2		0.104,729		
PLUMBING					
VATER PIPPING SYSTEMS	7, 71, 72, 6 1		SN-8		
IR CHAMBERS			3N-6 #7		
ACULAN BREAKER ON HOSEBIBBS			SN-8,415		
HOWER VALVES, TYPE AND TEMPERATURE SETTING					
DIRECT WASTE	7.1, 7.2, 8		SN-8,#18 SN-8,#12		
LEANOUTS	7.1, 7.2, 8		SN-8.#4		

Application Fees

ITEM	LOCATION				
	PLANS Sheat	SPECIFICATIONS	SYS MANUAL		
	No	Page No.	Page No.		
SUBMIT RISER DIAGRAM	7.4, 7.2, 6	1			
MATERIAL SPECIFICATIONS			514-8,846.19 884-9,82		
WATER HEATER DETAILS	7.2				
PIPE HANGER SPACING			SN-6,65; \$N-9,6		
ACCESS PANEL LOCATION			SN-8,#17		
SITE INSTALLED ITEMS	7.1, 7.2, 6		SN-8, SN-9		
FEE CALCULATION	***************************************		·		
ITEM	FEE (each)	NUMBER	TOTAL		
NEW RESIDENTIAL MODEL (ONE FOUNDATION SYSTEM)	\$200.00	1	\$200,00		
FOUNDATION MODIFICATION / OPTIONS	150.00	G	\$0.00		
REVERSE PLAN MODIFICATION	\$50.00	1	\$50,03		
/ARIOUS OFTIONS	\$50.00	Q	30.66		
ENGTH OR WIDTH INCREASE (UP TO 1/11")	\$50.06	0	30.0G		
EW HUN RESIDENTIAL MODELS (ONE FOUNDATION EVERTAL) [] BLDG. \$100.00 [] ELECT \$25.00 []	MECH \$25.00	□ PL5G, \$25 60	36.66		
		GRAND TOYAL	\$260,00		
DOITIONAL OPTIONS (from page 1-Model Designation)					

Building **S**ystem **A**pproval **R**eport

BUILDING SYSTEM APPROVAL REPORT
(Prenanufactures)
Michigan Department of Consumer & Industry Services
Bureau of Construction Codes - Plan Review Division
2501 Woodlake Circle, Okemos, MI 48804
P.O. Box 30254, Lansing, MI 48909
(517) 241-9228

APPROPERTY COMPLETICAL PERSON	1579 9A 12-MC+7 43-91EM		EVENECE INDIVIDUAL INTERFERENCE		tment of Consumer & India x group because of race, o printy, or posterol belief. If y Americans with Disabilities	ion, religio ou need hi	o, age, satisma argin, c in with maxima writing b	nice, mark marino em
COMPLIANCE ASSU	RANCE FR	CHARAM NO	BLIECHNIE SY	511.55	APPROVAL REPORT NO.	TYPE	OF APPRIOVAL:	
CA-00-416			P-03-4255		New		System	
MANUFACTURER: Ritz-Craft Corpor 118 Deal Parkwa P.O. Box 6 Jonesville, MI 49 DESCRIPTION OF MA	/ 250 NUFACTU	SED ALEXON	S СК СОМРОНІ	INT.				
	r: sutmie	214 1400			rawispace and Rever			
USE GROUP			CONSTRUCTO			TYPE	SF UNIT.	
	13		VB		VB	Modular		
DESIGN LOADS		**************		*******		************		
OCCUPANT LOAD	NIA	FERSONS	ROOF UVERNOW LOAD 73 P.			FLOOP LIVE LOAD 40 P		Psp
GROUND SKOW LOA	2	MUND REFF	io Tre		ROOF DEAD LOAD	FLOOR DEAD LOAD		~~~~
70	284	90	MPH	***************************************	16	PSF	10	PSF
ENERGY SOURCE							 	
HEATING SYSTEM		1	COOLING SYST	H:M	M PEATING		IG DEGREE DAYS	
On Site		-	N/A			neon		
PPLICABLE STA	TE CODE	S	***************************************			h		
uilding 2000 MRC		Electrical - 1			Mezhanicai - 2600 MHC		Ptombing = 2000 MRC	
initations of Appr nd doct work is entire	OVAL (IF A t to the ap;	BY) The spi proval of the i	ecific options an ocal entorcing a	CHICA.	s shall be literabled for ea	ch past in	ensifactored. HVAC equ	-genrant
estanicai and energy o ba document abas be	ndes and it considered	thereby appro-	was, pursound to i myshall suprevoi	nonon se pre:	russon code, consisting of manufactured and rures, by by the construction code	authority o commercia	F1972 PA 230 as assets on and shall be accuse	40
ntakasa witvin tve stat Bidewen ny	e or Section	in entired to th	at funisdic/fune de		Hisri of compliance with the LE	state cons	Auction cade	
Good Du	,			1	·se		DATE	
ren Greeno			Plan Rovinwer		January 27, 2003			
ALVIA S	7	Do.	,		U:		DATE	
m J. Pole. Ala					ief. Flun Review Distrion		January 97, 2003	

Michigan Certification Label

STATE OF MICHIGAN
DEPARTMENT OF CONSUMER & INDUSTRY SERVICES
BUREAU OF CONSTRUCTION CODES

THIS LABEL CERTIFIES THAT THIS BUILDING OR COMPONENT COMPLIES WITH AN APPROVED BUILDING SYSTEM AND COMPLIANCE ASSURANCE PROGRAM APPROVED BY THE CONSTRUCTION CODE COMMISSION, STATE OF MICHIGAN.

INSPECTED BY BUTEAU al Constr	iction Codes
LABEL NO.	
	160001
MFGRS, SERIAL NO. 004	1335A
BUILDING SYSTEM NO.	CODE
P-03-4255	MRC 2000
CA-00-416	RAM NO.
SEE DATA PLATE LOCATED ON ELECTRICAL FO	.

RCC_\$20(1.03) Authority P.A. 230.6(1972

Michigan Traveler Label

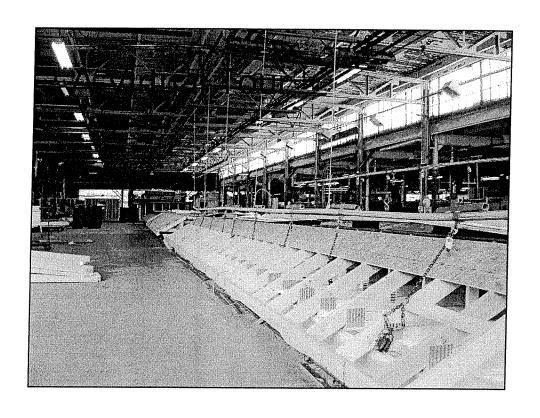
MICHIGAN DEPARTMENT OF CONSUMER & INDUSTRY SERVICES BUREAU OF CONSTRUCTION CODES

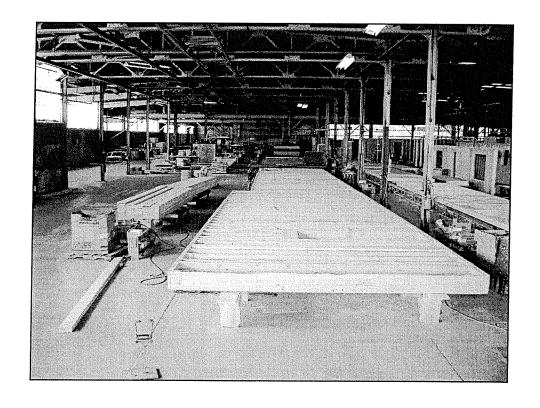
has been inspected by an authorized independent inspection

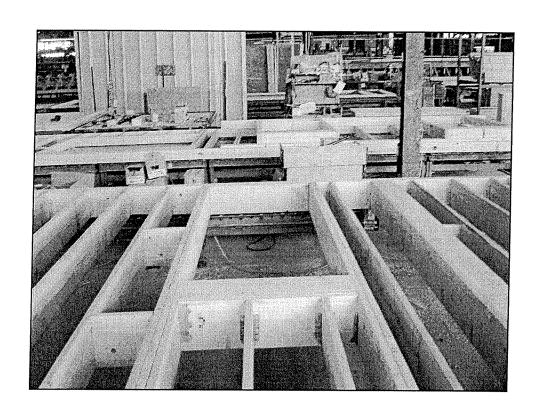
DO NOT REMOVE THIS LABEL UNTIL A CERTIFICATE OF OCCUPANCY IS ISSUED.

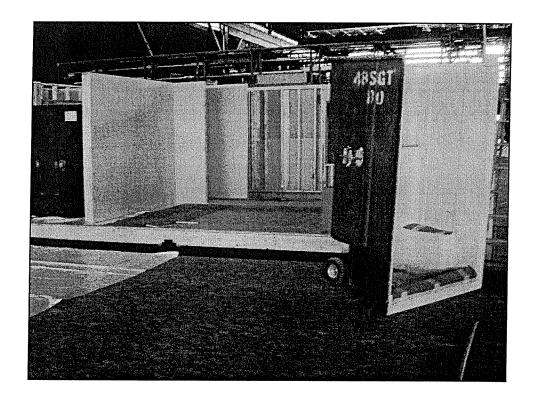
RCC-819 (4/98)

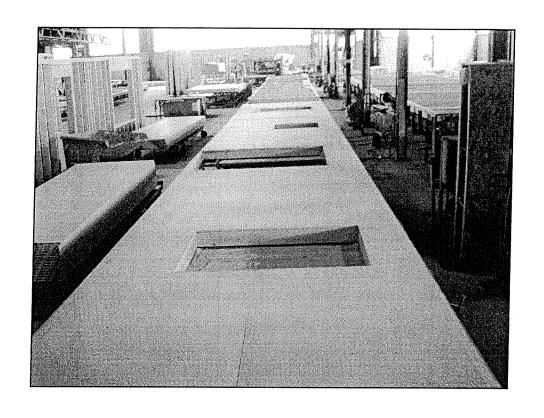
Authoray: P.A. 230 of 1972

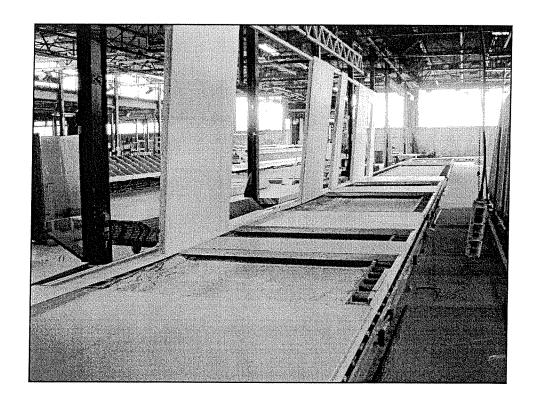


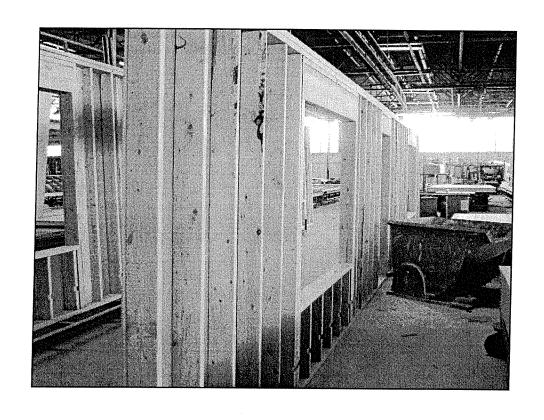


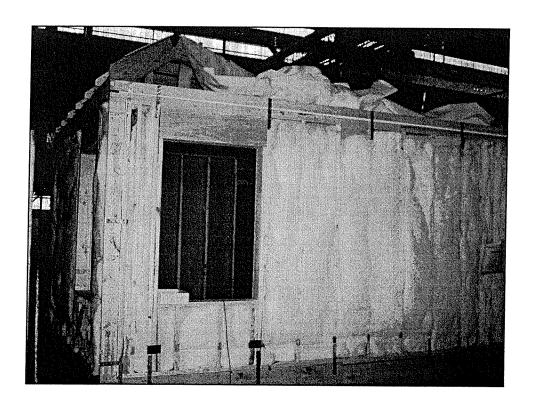


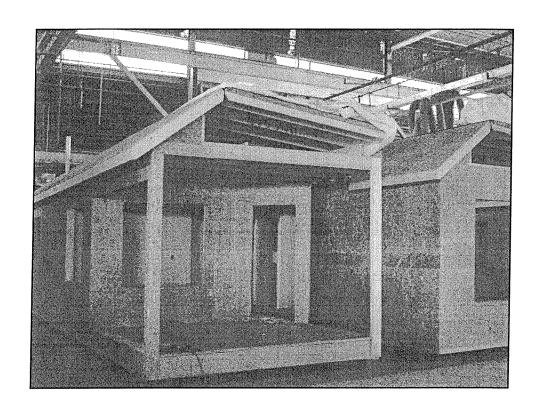


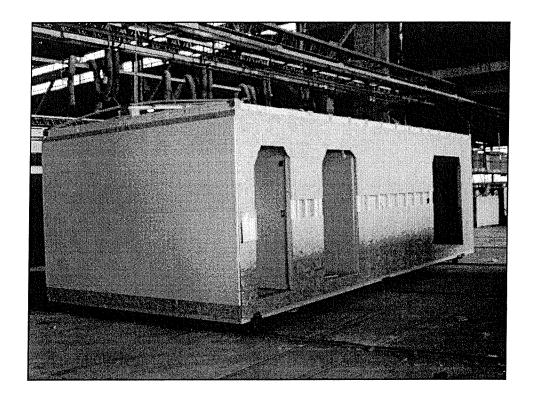


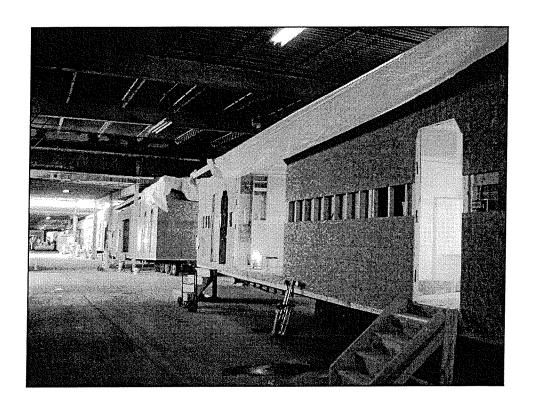












Credits

❖ James Greene	Code Issues
❖Peter Ingalls	Code Issues
❖Robert Aben	Image Scan
❖ Pam Braatz	Image Scan
❖Cindy Lindley	Image Scan
❖ Stuart Leslie	Pictures
∳ Larry Lehman	Contributor